

CURRICULUM VITAE

Dr. Akash Pratap Singh

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Research interest

- Akash Pratap Singh is interested in unravelling the factor of anti-microbial resistance (AMR) and sustainable development of new drugs against AMR. Further, he is keen interested in Precision medicine through analysis of potent chemical entities used as therapeutics in diseases through QSAR, DFT, Docking, and MD simulation analysis.
- Further, Comparative and Functional genome analysis of plants, Humans and microbes for finding the mutations, expression and Networks.

Academic/Professional Qualifications:

Academics	Institute	Board/University
Ph.D.	CSIR-IGIB	ACSIR
M.Sc (Biotechnology)	Raja Balwant Singh, college Agra	D.B.R.A.U
B.Sc (Biotechnology)	Agra College Agra	D.B.R.A.U
XII th	Maharaja Agrsen inter college	UP Board
X th	Sunflower public inter college	UP Board

Ph.D. Title and achievements

- The inhibition study on lipase associated with acne disease and their control by natural active compounds
- CSIR JRF Dec-2017 (Lifesciences) – Roll. No. 334896
- ICAR NET 2018(Agriculture Biotechnology) – Roll. NO. 1010102935

Publication

- **Identification of natural inhibitors to inhibit *C. acnes* lipase through docking and simulation studies.** IF-2.172 , Citations – 5.
Link - <https://pubmed.ncbi.nlm.nih.gov/36040538/>.
- **Computational screening and MM/GBSA-based MD simulation studies reveal the high binding potential of FDA-approved drugs against *Cutibacterium acnes* sialidase.** IF-5.235, Citations - 10
Link - <https://www.tandfonline.com/doi/abs/10.1080/07391102.2023.2242950?journalCode=tbsd20>
- Co-author - **Insights from a Pan India Sero-Epidemiological survey (Phenome-India Cohort) for SARS-CoV2 (2021).** Citations – 17 , IF-8.713
Link - <https://elifesciences.org/articles/66537>
- Co-author - **Bio-catalytic synthesis, in silico analysis and in vitro validation of hydroxamic acids against Histone Deacetylases.** IF – 4.885, Citations - 1
Link- <https://www.sciencedirect.com/science/article/abs/pii/S1359511323002854?via%3Dihub>
- **Identification of FDA compounds to inhibit RAGEs through docking, MD-simulation, MMPBSA and DFT analysis. Preprint**
Link - <https://www.researchsquare.com/article/rs-3744181/v1>
- Co-author - **Gallic Acid Derived 1, 2-Diarylindole as a Potential Synergistic Antifungal Agent against Candida Strains, Impact Factor – 3.570, Citation-0.** Link - <https://www.eurekaselect.com/article/138552>
- Co-author - **Novel semisynthetic derivative of Dehydrozingerone (DHZ-15) modulating Lipopolysaccharide stimulated macrophages through targeting NF-kB/p65 pathways and In vivo evaluation in sepsis animal model – Communicated**